

WEST Search History

[Hide Items](#)[Restore](#)[Clear](#)[Cancel](#)

DATE: Thursday, May 04, 2006

| Hide? | Set Name | Query | Hit Count |
|--------------------------|----------|---|-----------|
| | | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i> | |
| <input type="checkbox"/> | L7 | L6 and l2 | 7 |
| <input type="checkbox"/> | L6 | l1 and L4 | 63 |
| <input type="checkbox"/> | L5 | s l1 and L4 | 0 |
| <input type="checkbox"/> | L4 | 435/198.ccls. | 830 |
| <input type="checkbox"/> | L3 | human lysophospholipase.clm. | 2 |
| <input type="checkbox"/> | L2 | human lysophospholipase | 27 |
| <input type="checkbox"/> | L1 | lysophospholipase | 564 |

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

☐ [Generate Collection](#) [Print](#)

L9: Entry 4 of 5

File: USPT

Oct 12, 1999

US-PAT-NO: [5965423](#)

DOCUMENT-IDENTIFIER: US [5965423](#) A

**** See image for [Certificate of Correction](#) ****

TITLE: Human lysophospholipase

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|----------------|-------|----------|---------|
| Hillman; Jennifer L. | Mountain View | CA | | |
| Shah; Purvi | Sunnyvale | CA | | |
| Murry; Lynn E. | Portola Valley | CA | | |

US-CL-CURRENT: [435/198](#); [435/252.3](#), [435/252.33](#), [435/254.11](#), [435/254.3](#), [435/320.1](#), [435/325](#),
[435/419](#), [536/23.2](#), [536/24.31](#)

CLAIMS:

What is claimed is:

1. An isolated and purified polynucleotide encoding the polypeptide of SEQ ID NO:3.
2. An isolated and purified polynucleotide which is completely complementary to the polynucleotide of claim 1.
3. An isolated and purified polynucleotide comprising bases 76 to 765 of the polynucleotide sequence set forth in SEQ ID NO:4.
4. An isolated and purified polynucleotide having a sequence completely complementary to the polynucleotide of claim 1.
5. An expression vector comprising the polynucleotide sequence of claim 1.
6. A host cell comprising the expression vector of claim 5.
7. A method for producing a polypeptide comprising a sequence of SEQ ID NO:3, the method comprising the steps of:
 - (a) culturing the host cell of claim 6 under conditions suitable for the expression of the polypeptide; and
 - (b) recovering the polypeptide from the host cell culture.
8. A method for detecting a polynucleotide encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:3 in a biological sample containing nucleic acids, the method comprising the steps of:

(a) hybridizing the polynucleotide of claim 2 to at least one of the nucleic acids of the biological sample, thereby forming a hybridization complex; and

(b) detecting the hybridization complex, wherein the presence of the hybridization complex correlates with the presence of a polynucleotide encoding the polypeptide in the biological sample.

9. The method of claim 8 wherein the nucleic acids of the biological sample are amplified by the polymerase chain reaction prior to the hybridizing step.

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

=> file medline hcaplus biosis embase
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 16:19:59 ON 04 MAY 2006

FILE 'HCAPLUS' ENTERED AT 16:19:59 ON 04 MAY 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 16:19:59 ON 04 MAY 2006

Copyright (c) 2006 The Thomson Corporation

FILE 'EMBASE' ENTERED AT 16:19:59 ON 04 MAY 2006

Copyright (c) 2006 Elsevier B.V. All rights reserved.

=> s human lysophospholipase and brain

L1 5 HUMAN LYSOPHOSPHOLIPASE AND BRAIN

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 2 DUP REM L1 (3 DUPLICATES REMOVED)

=> d l2 1-2 ibib ab

L2 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:706480 HCAPLUS

DOCUMENT NUMBER: 137:211967

TITLE: **Human lysophospholipase-like**
protein, protein and cDNA sequences, recombinant
production and therapeutic uses

INVENTOR(S): Mao, Yumin; Xie, Yi

PATENT ASSIGNEE(S): Bode Gene Development Co., Ltd., Shanghai, Peop. Rep.
China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 33 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| CN 1328147 | A | 20011226 | CN 2000-116419 | 20000612 |
| PRIORITY APPLN. INFO.: | | | CN 2000-116419 | 20000612 |

AB The invention relates to a **human lysophospholipase**
-like protein, designated as phospholipase 49.06. The open reading frame
of the cDNA encodes a protein with 446 amino acids, and an estd. mol. wt.
of 49 kilodalton based on SDS-PAGE. The invention provides the use of
polypeptide and polynucleotide in a method for treatment of various kinds
of diseases, such as cancer, blood disease, HIV infection, immune
diseases, cholesterol metabolic disease, and inflammation. The invention
also relates to methods, expression vectors and host cells for recombinant
prodn. of said lysophospholipase 49.06. The invention also relates to
agonist and antagonist of said lysophospholipase 49.06 and uses in
therapy. The invention found that the expression profile of said
lysophospholipase 49.06 in some animal cell lines and tissues was similar
to that of human LCAT-like lysophospholipase.

L2 ANSWER 2 OF 2 MEDLINE on STN

DUPLICATE 1

ACCESSION NUMBER: 1999165587 MEDLINE

DOCUMENT NUMBER: PubMed ID: 10064899

TITLE: A specific **human lysophospholipase**:

cDNA cloning, tissue distribution and kinetic
 characterization.
 AUTHOR: Wang A; Yang H C; Friedman P; Johnson C A; Dennis E A
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of
 California at San Diego, La Jolla, CA 92093-0601, USA.
 CONTRACT NUMBER: GM 2050 (NIGMS)
 GM 51606 (NIGMS)
 HD 26171 (NICHD)
 SOURCE: Biochimica et biophysica acta, (1999 Feb 25) Vol. 1437, No.
 2, pp. 157-69.
 Journal code: 0217513. ISSN: 0006-3002.
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199904
 ENTRY DATE: Entered STN: 26 Apr 1999
 Last Updated on STN: 11 May 2002
 Entered Medline: 13 Apr 1999

AB Lysophospholipases are critical enzymes that act on biological membranes
 to regulate the multifunctional lysophospholipids; increased levels of
 lysophospholipids are associated with a host of diseases. Herein we
 report the cDNA cloning of a human brain 25 kDa
 lysophospholipid-specific lysophospholipase (hLysoPLA). The enzyme (at
 both mRNA and protein levels) is widely distributed in tissues, but with
 quite different abundances. The hLysoPLA hydrolyzes
 lysophosphatidylcholine in both monomeric and micellar forms, and exhibits
 apparent cooperativity and surface dilution kinetics, but not interfacial
 activation. Detailed kinetic analysis indicates that the hLysoPLA binds
 first to the micellar surface and then to the substrate presented on the
 surface. The kinetic parameters associated with this surface dilution
 kinetic model are reported, and it is concluded that hLysoPLA has a single
 substrate binding site and a surface recognition site. The apparent
 cooperativity observed is likely due to the change of substrate
 presentation. In contrast to many non-specific lipolytic enzymes that
 exhibit lysophospholipase activity, hLysoPLA hydrolyzes only
 lysophospholipids and has no other significant enzymatic activity. Of
 special interest, hLysoPLA does not act on plasmenylcholine. Of the
 several inhibitors tested, only methyl arachidonyl fluorophosphonate
 (MAFP) potently and irreversibly inhibits the enzymatic activity. The
 inhibition by MAFP is consistent with the catalytic mechanism proposed for
 the enzyme - a serine hydrolase with a catalytic triad composed of
 Ser-119, Asp-174 and His-208.

=> d his

(FILE 'HOME' ENTERED AT 16:19:31 ON 04 MAY 2006)

FILE 'MEDLINE, HCAPLUS, BIOSIS, EMBASE' ENTERED AT 16:19:59 ON 04 MAY 2006

L1 5 S HUMAN LYOPHOSPHOLIPASE AND BRAIN
 L2 2 DUP REM L1 (3 DUPLICATES REMOVED)

=> log y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 8.18 | 8.39 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -0.75 | -0.75 |

STN INTERNATIONAL LOGOFF AT 16:22:05 ON 04 MAY 2006